

Novel Methods for the Assay of Troponin I and T and Complexes  
of Troponin I and T and Selection of Antibodies for Use in  
Immunoassays

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ABSTRACT OF THE DISCLOSURE

Assay systems and specialized antibodies for the  
detection and quantitation of troponin I and troponin T in  
10 body fluids as an indicator of myocardial infarction. Since  
troponin I and T exist in various conformations in the blood,  
the ratios of the monomeric troponin I and T and the binary  
and ternary complexes, as well as which form of troponin  
present in the blood, may be related to the metabolic state  
15 of the heart. Disclosed is a system to determine the  
presence of a troponin form or a group of troponin forms in a  
sample of whole blood, serum or plasma.

Disclosed is a stabilized composition of troponin;  
the stabilized composition can comprise a stabilized  
20 composition of troponin I, wherein the troponin I is  
oxidized, the troponin I can be unbound or the troponin I can  
be in a complex.

Disclosed is a method for improving the recovery of  
troponin I or T from a surface used in immunoassays

25 Also disclosed are antibodies which recognize,  
unbound troponin forms, the forms of troponin in binary  
complexes, the ternary complex of troponin I, T and C, and  
the conformations of troponin I having intramolecularly  
oxidized and reduced cysteines.

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